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Application No. <u>091805,489</u>	Prepared by <u>NH</u>	Tracking Number <u>05892479</u>	
Examiner-GAU <u>Healy-2874</u>	Date <u>2-17-4</u>	Week Date <u>01/19/04</u>	
	No. of queries <u>2</u>	IFW	

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	<u>p. PTO-1449</u>
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

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k. Other	

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/805,489
Filing Date	March 13, 2001
First Named Inventor:	Wayne V. Sorin
Art Unit	2874
Examiner Name	Healy, Brian
Attorney Docket Number	5489P045X

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)					
BMA BMA BMA BMA		US-	5,970,201	10/19/1999	Anthony et al.	385	140
		US-	6,058,226	05/02/2000	Starodubov	385	12
		US-	6,181,840	01/30/2001	Huang et al.	385	10
		US-	6,631,224 B1	10/07/2003	Sorin et al.	385	28
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FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
		TW 382 662 B		02/21/2000	National Science Council		

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B. Healy

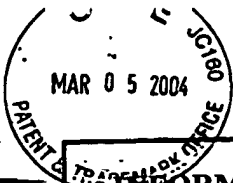
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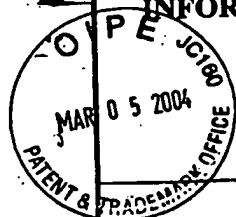


INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 21501-728		SERIAL NO. Unassigned 09/805/489			
		APPLICANT Kim et al.					
		FILING DATE 03/12/01		GROUP Unassigned 2824			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
Qmt	J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends", Opt. Lett., vol. 12, 281-283 (1987).						
Bukt	B.Y. Kim, J.N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers", OFS '86, Tokyo, Japan (October 8-10, 1986).						
Bukt	H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers", Journal of Lightwave Technology, vol. 6, 428-436 (1988).						
Bukt	J.O. Askautrud and H.E. Engan, "Fiberoptic frequency shifter with no mode change using cascaded acousto-optic interaction regions", Opt. Lett., vol. 15, 649-651 (1990).						
Bukt	H.E. Engan, T. Myrveit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves", Opt. Lett., vol. 16, 24-26 (1991).						
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Bukt	D. Östling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber", Opt. Lett., vol. 20, 1247-1249 (1995).						
Bukt	H.E. Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers", J. Opt. Soc. Am. A., vol. 13, 112 - 118 (1996).						
Bukt	D. Östling and H.E. Engan: "Spectral flattening by an all-fiber acousto-optic tunable filter", 1995 IEEE Ultrasonics Symposium, 837 - 840.						
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Bukt	D. Östling and H.E. Engan: "Polarization-selective mode coupling in two-mode Hi-Bi fibers", Journal of Lightwave Technology, vol. 15, 312-320 (1997).						
Bukt	D. Östling, B. Langli, and H.E. Engan: "Intermodal beat lengths in birefringent two-mode fibers", Opt. Lett., vol. 21, 1553 - 1555 (1996).						
EXAMINER B. Healy DATE CONSIDERED 3/23/04							

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		APPLICANT Kim et al.				
		FILING DATE 03/12/01		GROUP Unassigned 2874		
U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
<i>Burt</i>	H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers", 1996 IEEE Ultrasonics Symposium, 799-802					
<i>Burt</i>	D. Östling and H.E. Engan: "Acousto-optic tunable filters in two-mode fibers", Optical Fiber Technology, vol. 3, 177 - 183 (1997).					
<i>Burt</i>	B. Langli, P. G. Sinha and K. Bløtekjær, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers", Optical Review, Vol.4, No.1A, pp.121-129, Jan./Feb. 1997.					
<i>Burt</i>	T.A. Birks, P.S.J. Russell and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber", IEEE Photonics Technol. Lett., vol. 6, p. 725 - 727 (1994).					
<i>Burt</i>	M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter", Opt. Lett., vol. 17, 270-272 (1992)					
<i>Burt</i>	J. Blake and P. Siemsen, "Practical compact high performance fiber-optic frequency shifter", Proc. 9 th OFS Conference, Firenze, pp. 301 - 304 (1993).					
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<i>Burt</i>	W. P. Risk, R. C. Youngquist, G. S. Kino and H. J. Shaw, "Acousto-optic frequency shifting in birefringent fiber", Optics Letters, Vol. 9, No. 7, pp 309-311, 1984.					
<i>Burt</i>	W. P. Risk and G. S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave", Optics Letters, Vol. 11, No. 5, pp 336-338, 1986.					
<i>Burt</i>	W. P. Risk and G. S. Kino, "Acousto-optic polarization coupler and intensity modulator for birefringent fiber", Optics Letters, Vol. 11, No. 1, pp 48-50, 1986.					
<i>Burt</i>	W.P. Risk, G.S. Kino and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form", Opt. Lett., vol. 11, p. 578 - 580 (1986).					
<i>Burt</i>	S.F. Su, R. Olshansky, D.A. Smith and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter", Electron. Lett., vol. 29, p. 477 - 478 (1993).					
<i>Burt</i>	Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers", Optical and Quant. Elect., vol. 21, pp, 491 - 498 (1989).					
EXAMINER	<i>B. Healy</i>		DATE CONSIDERED		3/23/04	

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		FILING DATE 03/12/01		GROUP Unassigned 2874			
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>SW</i>	J. Ji, D. Uttam and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre", Electronics Letters, Vol. 22, No. 21, pp 1141-1142, 1986.						
<i>SW</i>	C. N. Pannell, R. P. Tatam, J. D. C. Jones and D. A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre", Electronics Letters, Vol. 23, No. 16, pp 847-848, 1987.						
<i>SW</i>	K. Nosu, H. F. Taylor, S. C. Rashleigh and J. F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers", Ultrasonics Symposium, pp 476-481, 1983.						
EXAMINER	<i>B. Healy</i>		DATE CONSIDERED 3/23/04				

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 5489.P045X	Application Number: 09/805,489
Page 3 of 3		First Named Inventor: Wayne V. Sorin	
		Filing Date: March 13, 2001	
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
		PCT Notification of Transmittal of the International Search Report, PCT/US01/15730, International Filing Date: 6/15/2001, Date of Mailing: 5/29/2002.	
		M.-Y. JEON et al., "An Electronically Wavelength Tunable Mode-Locked Fiber Laser Using an All-Fiber Acousto-Optic Tunable Filter", Proceedings of the 10th International Conference, Del Coronado, CA, May 28- June 1, 1996, pp. 20-21.	
		D. S. STARODUBOV et al., "All-Fiber Bandpass Filter with Adjustable Transmission Using Cladding-Mode Coupling", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 11, November 1998, pp. 1590-1592.	
		M. G. XU et al., "Tunable fibre bandpass filter based on a linearly chirped fibre Bragg grating for wavelength demultiplexing", Electronics Letters, Vol. 32, No. 20, September 26, 1996, pp. 1918-1919.	
		K. SUGDEN et al., "Fabrication and Characterization of Bandpass Filters Based on Concatenated Chirped Fiber Gratings", Journal of Lightwave Technology, Vol. 15, No. 8, August 1997, pp. 1424-1432.	
		TIMOTHY E. DIMMICK et al., "All-Fiber Acousto-Optic Tunable Bandpass Filter", Optical Society of America, 2000, pp. 3 total.	
		IN KAG HWANG et al., "All-fiber-optic nonreciprocal modulator", Optics Letters, Vol. 22, No. 8, April 15, 1997, pp. 507-509.	

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Page 2 of 3		First Named Inventor: Wayne V. Sorin	
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Initial	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
		5,991,476		Baney et al.	11/23/1999	
		6,021,237		Kim et al.	2/1/2000	
		6,104,856		Lampert	8/15/2000	
		6,233,379	B1	Kim et al.	5/15/2001	
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		6,266,462	B1	Kim et al.	7/24/2001	
		6,278,536	B1	Kai et al.	8/21/2001	
		6,289,699	B1	Kewitsch et al.	9/18/2001	
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		6,343,165	B1	Kim et al.	1/29/2002	
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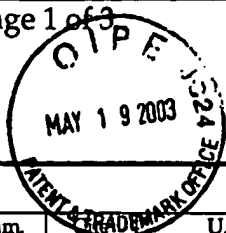
FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ³	Kind Code ³ (If known)				
		EP	0 221 560	A2	Aberson, James Ashley, Jr.	11/6/1986		

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		Number	Kind Code ² (If known)			
		4,768,851		Shaw et al.	9/6/1988	
		4,781,425		Risk et al.	11/1/1988	
		4,971,417		Krinsky et al.	11/20/1990	
		5,022,732		Engan et al.	6/11/1991	
		5,532,864		Alexander et al.	7/2/1996	
		5,537,238		Janniello et al.	7/16/1996	
		5,550,940		Vengsarkar et al.	8/27/1996	
		5,600,466		Tsushima et al.	2/4/1997	
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		5,805,751		Kewitsch et al.	9/8/1998	
		5,864,414		Barnsley et al.	1/26/1999	
		5,953,470		Toyohara	9/14/470	

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FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
		KR	1997-24796		KIM, Byung Yoon	6/16/1997		
		DE	3430766	A1	Stocker, Helmut	8/21/1984		
		EP	0 143 583	A2	Shaw, Herbert John	11/15/1984		
		EP	0 144 190	A2	Shaw, Herbert John	11/20/1984		

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